

5. List of Lepidoptera obtained by Dr. A. Donaldson Smith during his recent Expedition to Lake Rudolf. By EMILY MARY SHARPE.

[Received April 21, 1896.]

For the description of the country traversed by Dr. Donaldson Smith through Western Somali-land, I may refer to my father's paper on the Birds collected during the expedition (P. Z. S. 1895, pp. 457-520).

Although but two new species of Butterflies appear to have been obtained, the facts connected with the geographical distribution of many species are of considerable interest.

Family DANAIIDÆ.

1. TIRUMALA PETIVERANA, Doubl. & Hewits.
1 ex. ♂. Meo, Oct. 25, 1894.
2. LIMNAS KLUGII, Butler.
1 ex. ♀. Lafarook, July 7, 1894.
1 ex. ♀. The Haud, July 22, 1894.
7 ex. ♂ ♀. Sheik Husein, Sept., Oct. 1894.

Family SATYRIDÆ.

3. MELANITIS BANKIA (Fabr.).
1 ex. Shebeli, Aug. 30, 1894.
4. MYOALESES PERSPICUA, Trimen.
3 ex. ♂ ♀. Sheik Husein, Sept., Oct.
5. YPTIIMA DOLETA, Kirby.
4 ex. Sheik Husein, Sept. 20-26.
6. NEOCENYRA RUFILINEATA, Butler.
1 ex. Dabulli, Sept. 16.

Family ACRÆIDÆ.

7. ACRÆA MENIPPE (Drury).
1 ex. Sheik Husein, Sept. 20.
8. ACRÆA NEOBULE (Drury).
1 ex. The Haud, July 23.
2 ex. ♂ ♀. Sheik Husein, Sept. 24.
9. ACRÆA LYCIA (Fabr.).
4 ex. Sheik Husein, Sept. 26 to Oct. 3.

10. *ACRÆA DOUBLEDAYI*, Guérin.
3 ex. ♂ ♀. Sheik Husein, Sept. 23-25.
11. *ACRÆA BRÆSIA*, Godman.
1 ex. ♀. Sheik Husein, Sept. 27.
12. *PARDOPSIS PUNCTATISSIMA* (Boisd.).
1 ex. Luku, Sept. 18.
4 ex. Sheik Husein, Sept. 19.

Family NYMPHALIDÆ.

13. *AELLA COLUMBINA* (Cram.).
1 ex. Walenso, Oct. 26.
14. *PYRAMEIS CARDUI* (L.).
2 ex. Berbera, July 4.
1 ex. Argeisa, July 18.
8 ex. Sheik Husein, Sept. 16 to Oct. 2.
15. *JUNONIA BOÏPIS*, Trimen.
2 ex. ♂ ♀. Sheik Husein, Sept. 25.
16. *JUNONIA CLELIA* (Cram.).
1 ex. ♂. Darar, Sept. 15.
4 ex. ♂ ♀. Sheik Husein, Sept. 19 to Oct. 2
17. *JUNONIA CREBRENE*, Trimen.
1 ex. ♂. The Haud, July 23.
1 ex. ♂. Stony-brook, Ehrer River, Aug. 19.
5 ex. ♂ ♀. Sheik Husein, Sept. 19 to Oct. 1.
18. *PRECIS SESAMUS*, Trimen.
1 ex. Darro Mountains, Nov. 19.
19. *PRECIS OCTAVIA* (Cram.).
2 ex. Sheik Husein, Sept. 27.
20. *PRECIS TAVETA* (Rogenh.).
2 ex. Sheik Husein, Sept. 19, 24.
21. *PRECIS OLOANTHA* (Cram.).
1 ex. Sheik Husein, Sept. 19.
1 ex. Sheik Mahomed, Oct. 28.
2 ex. Darro Mountains, Nov. 4, 19.
22. *PRECIS MICROMERA*, Butler.
2 ex. Sheik Husein, Sept. 26 to Oct. 1.

23. *PRECIS ORTHOSIA* (Godt.).
4 ex. Sheik Husein, Sept. 26 to Oct. 2.
24. *EURYTELA DRYOPE* (Cram.).
5 ex. Sheik Husein, Sept. 26 to Oct. 2.
1 ex. Darro Mountains, Nov. 18.
25. *EURYTELA HIARBAS* (Drury).
2 ex. Darro Mountains, Nov. 6.
26. *BYBLIA ILITHYIA* (Drury).
13 ex. ♂ ♀. Sheik Husein, Sept. 20 to Oct. 2.
27. *NEPTIS AGATHA* (Cram.).
1 ex. Meo, Oct. 25.
1 ex. Darro Mountains, Nov. 19.
28. *NEPTIS MARPESSA*, Hopff.
1 ex. Sheik Husein, Oct. 2.
29. *HAMANUMIDA DÆDALUS* (Fabr.).
1 ex. Stony-brook, Ehrer River, Aug. 4.
2 ex. Sheik Husein, Sept. 19.
30. *HYPOLIMNAS MISIPPUS* (Linn.).
1 ex. ♂. Stony-brook, Ehrer River, Aug. 19.
5 ex. ♂ ♀. Sheik Husein, Sept. 19 to Oct. 2.
31. *PANOPEA WALENSSENSIS*, sp. n.

Allied to *P. coromana*, Oberthür, but differs in the white markings on the fore wing.

Fore wing.—The two spots on the apical portion are more square in shape; the discal row of white spots, from the inner margin to the third median nervule, are larger in size and only separated by the brown nervules. Two spots, one in the cell, and the second between the third median and second radial nervules, close to the third discocellular nervule, are very distinctly marked. A submarginal row of white spots, commencing above the submedian nervule, and extending, between each nervule, to the third median nervule; these spots are rather more distinct than in *P. coromana*. *Hind wing*: similar to that of the allied species, the submarginal row of white spots being more distinctly marked.

Underside.—White spots more clearly defined, with the submarginal spots mentioned on the upperside well marked. The whole of the basal half of the hind wing white, with eight black spots at the base. A marginal border, pale brown, not so distinct as in *P. coromana*, and with a submarginal row of round white spots between each nervule.

Expanse 2·7 inches.

Hab. Walenso, Oct. 26, 1894.

32. *SALAMIS ANACARDII* (L.).
2 ex. Walenso, Oct. 26.
33. *CHARAXES CANDIOPE* (Godt.).
1 ex. Darro Mts., Nov. 4.
34. *CHARAXES HOLLANDII*, Butler.
3 ex. Walenso, Oct. 26.
35. *CHARAXES ZOOлина* (Doubled.).
1 ex. ♂. Sheik Husein, Sept. 20.
1 ex. ♂. Darro Mts., Nov. 4.
36. *CHARAXES NEANTHES* (Hewits.).
1 ex. Sheik Husein, Sept. 19.

Family *LYCENIDÆ*.

37. *ZERITIS PERION* (Cram.).
1 ex. The Haud, July 27.
38. *DEUDORYX LIVIA* (Klug).
1 ex. Ahdeh, July 14.
39. *LYCÆNA FULCHRA*, Murray.
1 ex. Argeisa, July 18.
1 ex. Shebeli, Sept. 1.
1 ex. Sheik Husein, Sept. 26.
40. *LYCÆNA JOBATES* (Hopff.).
1 ex. Sheik Husein, Sept. 19.
41. *LYCÆNA THEOPHRASTUS* (Fabr.).
1 ex. Stony-brook, Ehrer River, Aug. 18.
2 ex. Sheik Husein, Sept. 28 to Oct. 2.
42. *CATOCHRYSOPS ASTERIS* (Godt.).
1 ex. Sheik Husein, Sept. 24.
43. *LYCÆNA LINGEUS* (Cram.).
1 ex. Sheik Husein.
44. *LYCÆNA MORIQUA* (Wallengr.).
1 ex. Argeisa, July 18.
1 ex. Sheik Husein, Sept. 29.
45. *LYCÆNA BÆTICA* (L.).
1 ex. Sheik Husein, Sept. 28.

46. *LYCÆNA GAIKA* (Trim.).
 2 ex. Sheik Husein, Sept. 26, 29.
47. *LYCÆNESTHES LARYDAS* (Cram.).
 2 ex. Sheik Husein, Sept. 20.

Family PIERIDÆ.

48. *TERIAS ZOB* (Hopff.).
 1 ex. ♀. Argeisa, July 18.
 10 ex. ♂ ♀. Sheik Husein, Sept. 19-28.
49. *TERIAS REGULARIS* (Butl.).
 1 ex. ♂. Dabulli, Sept. 16.
 2 ex. ♂ ♀. Sheik Husein, Sept. 28.
50. *TERIAS BISINUATA* (Butler).
 1 ex. Smith River, Sept. 16.
 2 ex. Sheik Husein, Sept. 20 to Oct. 1.
51. *MYLOTHRIS AGATHINA* (Cram.).
 3 ex. Sheik Husein, Sept. 24 to Oct. 2.
 1 ex. ♂. Meo, Oct. 25.
52. *PIERIS GIDICA* (Godt.).
 5 ex. ♂ ♀. Sheik Husein, Sept. 20-25.
 The males are typical *P. gidica*, but the female would be considered by most entomologists to be *P. abyssinica*, Lucas. My impression is that these two species are identical.
53. *PIERIS SEVERINA* (Cram.).
 1 ex. Argeisa, July 18.
 1 ex. Smith River, Sept. 16.
 4 ex. Sheik Husein, Sept. 23 to Oct. 2.
54. *PIERIS LORDACA* (Walker).
 1 ex. ♂. Sibbe, July 7.
 2 ex. ♂. The Haud, July 25.
 1 ex. ♀. Dachetu, Aug. 9.
 1 ex. ♀. Dabulli, Sept. 16.
55. *PIERIS THYSO* (Hopff.).
 2 ex. Meo, Oct. 10, 25.
56. *HERPÆNIA MELANARGE*, Butler.
 1 ex. The Haud, July 22.
 1 ex. Sassabane, July 31.
 1 ex. Sibbe, Aug. 4.
 1 ex. Fussa, Sept. 12.

57. *TERACOLUS AURIGINEUS*, Butler.
4 ex. Sheik Husein, Sept. 20-28.
58. *TERACOLUS CHRYSONOME* (Klug).
1 ex. Ahdeh, July 14.
3 ex. Sheik Husein, Sept. 24, 28.
59. *TERACOLUS CATOCHRYSOPS*, Butler.
2 ex. ♂ ♀. Darro Mts., Nov. 19.
60. *TERACOLUS CALAIS* (Cram.).
2 ex. Ahdeh, July 14.
1 ex. Stony-brook, Ehrer River, Aug. 19.
1 ex. ♀. Sheik Husein, Sept. 25.
61. *TERACOLUS OCELLATUS*, Butler.
1 ex. Shebeli, Aug. 30.
62. *TERACOLUS PROTOMEDIA* (Klug).
1 ex. Silou, Aug. 7.
1 ex. Ehrer River, Aug. 16.
1 ex. Shebeli, Aug. 24.
1 ex. Sheik Husein, Sept. 29.
63. *TERACOLUS PHLEGIAS* (Butler).
1 ex. Sheik Husein, Sept. 26.
64. *TERACOLUS PHCENIUS* (Butler).
2 ex. ♂ ♀. Sheik Husein, Sept. 20, Oct. 2.
65. *TERACOLUS MILES*, Butler.
1 ex. ♂. Argeisa, July 18.
1 ex. ♂. Darro Mts., Nov. 4.
66. *TERACOLUS AGOYE*, Wallengr.
2 ex. The Haud, July 25.
3 ex. Silou, Aug. 7.
67. *TERACOLUS OMPHALE* (Godt.).
1 ex. Sheik Husein, Sept. 27.
68. *TERACOLUS JACKSONI*, E. M. Sharpe.
4 ex. ♂ ♀. Sheik Husein, Sept. 19 to Oct. 2.
69. *TERACOLUS EVENINA* (Wallengr.).
1 ex. Ahdeh, July 14.
1 ex. Sheik Husein, Oct. 1.
70. *TERACOLUS ANTEVIPPE* (Boisd.).
1 ex. Sheik Husein, Sept. 19.

71. *TERACOLUS SUBVENOSUS*, Butler.
1 ex. Sheik Husein, Sept. 20.
72. *TERACOLUS SIPYLUS*, Swinh.
5 ex. Sheik Husein, Sept. 23 to Oct. 2.
73. *TERACOLUS MINANS*, Butler.
2 ex. Sheik Husein, Sept. 19-26.
74. *TERACOLUS PHILLIPSI*, Butler.
1 ex. ♂. Ahdeh, July 17.
4 ex. ♂ ♀. Sheik Husein, Sept. 19 to Oct. 1.
75. *TERACOLUS CITREUS*, Butler.
4 ex. ♂ ♀. Argeisa, July 18.
1 ex. ♂. Stony-brook, Aug. 29.
1 ex. ♂. Meo, Oct. 25.
76. *TERACOLUS HELIOCAUSTUS*, Butler.
1 ex. Sibbe, Aug. 4.
77. *TERACOLUS LEO*, Butler.
1 ex. ♀. Shebeli, Aug. 24.
1 ex. ♂. Sheik Husein, Sept. 28.
78. *COLIAS ELECTRA* (L.).
1 ex. Sheik Husein, Sept. 23.
3 ex. Darro Mts., Nov. 6-19.
79. *ERONIA CLEODORA*, Hübn.
1 ex. Dabulli, Sept. 16.
1 ex. Sheik Husein, Sept. 24.
80. *ERONIA LEDA*, Doubled.
1 ex. Sheik Husein, Sept. 28.
1 ex. Meo, Oct. 25.
81. *CATOPSILIA FLORELLA* (Fabr.).
1 ex. Argeisa, July 18.
7 ex. Sheik Husein, Sept. 24 to Oct. 2.
82. *SYNCHLOE GLAUCONOME* (Klug).
1 ex. The Haud, July 22.

Family PAPILIONIDÆ.

83. *PAPILIO DEMOLEUS*, L.
1 ex. Stony-brook, Ehrer River, Aug. 19.
3 ex. Sheik Husein, Sept. 12-28.
1 ex. Darro Mts., Nov. 4.

84. *PAPILIO BRONTES*, Godman.

1 ex. Meo, Oct. 25.

1 ex. Darro Mts., Nov. 10.

85. *PAPILIO DONALDSONI*, sp. n.

Allied to *P. nireus*, but differs in the brilliant blue band on the fore wing.

Fore wing.—The blue band ending below the median nervure much narrower in width and distinctly separated by the black nervules. The two blue spots near the apex clearly defined but smaller. *Hind wing*: similar to *P. nireus*, but the band not so wide and terminating above the anal angle.

Underside.—With the exception of the yellow submarginal band on the hind wing, there is no other difference from *P. nireus*. This band is almost united from the apex to the first median nervule, the outward lines or edges being almost straight.

♀. Similar to the female of *P. nireus* in colour, but the blue band terminates below the discoidal cell, as in the male. Under-side entirely brown, without the yellow submarginal border on the hind wing.

Expanse: ♂ 3.2 inches, ♀ 3.6 inches.

3 ex. Darro Mts., Nov. 6.

2 ex. Meo, Oct. 25.

86. *PAPILIO ANTINORII*, Oberthür.

2 ex. Walenso, Oct. 25.

2 ex. Darro Mts., Nov. 4-16.

Family HESPERIIDÆ.

87. *ISMENE FORESTAN* (Cram.).

1 ex. Sheik Husein, Sept. 26.

88. *HESPERIA VINDEK* (Cram.).

1 ex. Sheik Husein, Sept. 24.

89. *PAMPHILA INCONSPICUA*, Bert.

1 ex. Argeisa, July 18.

1 ex. Shebeli, Aug. 30.

1 ex. Sheik Husein, Sept. 28.

90. *NISONIADES DJELELE* (Wallengr.).

1 ex. Goura, Sept. 14.

1 ex. Sheik Husein, Sept. 28.

91. *NISONIADES WESTERMANNI* (Latr.).

6 ex. Sheik Husein, Sept. 19-26.